UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/628,851	07/31/2000	Edward J. Connor	30566.97-US-U1	5516

22462	7590	05/02/2005

GATES & COOPER LLP
HOWARD HUGHES CENTER
6701 CENTER DRIVE WEST, SUITE 1050
LOS ANGELES, CA 90045

EXAMINER
DHARIA, PRABODH M

ART UNIT	PAPER NUMBER
2673	

DATE MAILED: 05/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)
Office Action Summary	09/628,851	CONNOR ET AL.
	Examiner	Art Unit	
	Prabodh M Dharia	2673	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on <u>03 January 2005</u>.

2a) ☐ This action is **FINAL**.   2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) <u>1-62</u> is/are pending in the application.

  4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) <u>1-5, 7-9, 11-16, 18-31, 33, 34, 36, 38-42, 44-49, 51, 52, 54 and 57-62</u> is/are rejected.

7) ☒ Claim(s) <u>6, 10, 17, 32, 35, 37, 43, 50, 53, 55 and 56</u> is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☒ The drawing(s) filed on <u>31 July 0200</u> is/are: a)☒ accepted or b)☐ objected to by the Examiner.

  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

  a)☐ All b)☐ Some * c)☐ None of:

  1. ☐ Certified copies of the priority documents have been received.

  2. ☐ Certified copies of the priority documents have been received in Application No. _____.

  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

  * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
   Paper No(s)/Mail Date <u>02-23-01,06-28-04</u>.

4) ☐ Interview Summary (PTO-413)
   Paper No(s)/Mail Date. _____.

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: _____.

1.   **Status:** Receipt is acknowledged of papers submitted on 01-03-2005 under appeal brief, which have

been placed of record in the file. Claims 1-62 are pending in this action.

2.   Applicant's arguments, see appeal brief, filed 01-03-2005, with respect to claims 1.2.6,9-15 have

been fully considered and are persuasive. The finality of office action mailed on 08-03-2004 has been

withdrawn.

Response to Amendment

3.   Applicant's amended abstract per objection. Objection to abstract is withdrawn.

Claim Rejections - 35 USC § 103

4.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of
> this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as
> a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said
> subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5.   Claims 1-4 rejected under 35 U.S.C. 103(a) as being unpatentable over Barnard (6,456,938 B1) in

view of DeLorme et al. (5,848, 373).

      Regarding Claim 1, Barnard teaches a system for processing markup data for a map (Col. 15, Lines

39-47) on a personal digital assistant (Col. 19, Lines 4-7) comprising: (a) a personal digital assistant (Col.

19, Lines 4-7); (b) an application on the personal digital assistant (Col. 15, Lines 39-47, Col. 19, Lines 4-7),

the application configured to: (i) obtain a map as an encoded (Col. 42, Line 58 to Col. 43, Line 5) and

spatially indexed vector representation of geographic data from a server (Col. 14, Lines 47-64); (ii) display

the map on a screen of the personal digital assistant (Col. 15, Lines 39-42, Col. 19, Lines 4-12); (iii) obtain

markup data (Col. 15, Lines 34-47) comprised of pixel data (Col.12, Lines 37-39) from a user that utilizes a

stylus to markup the map displayed on the personal digital assistant (Col. 13, Lines 33-41); (iv) create a file

(Col. 18, Lines 14-18) comprised of the markup data (Col. 21, Lines 3-63); (v) upload the file of markup

data from the personal digital assistant to the server (Col. 36, Lines 33-42).

However, Bernard fails to teach or recite in specification obtain a map as an encoded and spatially

indexed vector representation of geographic data from a server.

However, Delorme et al. teaches obtain a map as an encoded and spatially indexed vector

representation of geographic data from a server (Col. 21, Line 56 to Col. 22, Line 6, Col. 21, lines 19-30,

Col. 22, Lines 50-54, Col. 56, lines 44-54, Col. 60, line 60 to Col. 61, Line 10, Col. 63, Lines 56-65).

Thus it would have been obvious to one in the ordinary skill in the art at the time of invention was

made to incorporate the teaching of Delorme et al. in to the Barnard to be able to have encoded map data

for correlation and coordination of spatially related vectored data between digital different electronic

medias.

Regarding Claim 2, Barnard teaches a system for processing markup data for a map (Col. 15, Lines

39-47) (a) a personal digital assistant (Col. 19, Lines 4-7); and (b) an application on the personal digital

assistant (Col. 13, Lines 33-41), the application configured to:(i) obtain a file comprised of markup data for

a map (Col. 18, Lines 14-18, Col. 21, Lines 3-63); and (ii) upload the file to a server (Col. 36, Lines 33-42).

Regarding Claim 3, Barnard teaches the markup data comprises pixel data (Col.12, Lines 37-39) for

a markup entity (Col. 21, Lines 3-63).

Regarding Claim 4, Barnard teaches the personal digital assistant (Col. 19, Lines 4-7); obtains the file by obtaining markup data from a user (Col. 18, Lines 14-18, Col. 21, Lines 3-63).

6.   Claims 5,7-9,11-16,18-31,33,34,36,57-60 rejected under 35 U.S.C. 103(a) as being unpatentable over Barnard (6,456,938 B1) in view of DeLorme et al. (5,848, 373) as applied to claims 1-4 above, and further in view of Ching (6,560,620 B1).

Regarding Claim 5, Barnard teaches the markup data is a redline line (Col. 13, Lines 49-52, Col. 13, Lines 34-41, Col. 14, Lines 9-11, (Geometric scribbles (points, lines polygon, symbols), GPS input coordinates, annotations and a geo-reference systems) (Col. 15, Lines 36-54, 56-58, Col. 16, Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-27)).

However, Barnard modified by Delorme et al. fail to recite specifically the markup data is a redline line.

However, Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10, Lines 18-21).

Thus it would have been obvious to one in the ordinary skill in the art at the time of invention was made to incorporate the teaching of Ching in to the Barnard modified by Delorme et al. to be able to have system that can encode mark-up data as redline and have a capability to store, retrieve and compare with other documents.

Regarding Claim 7, Barnard teaches (a) display a text edit dialog box on the screen (Col. 20, Lines 56-60) of the personal digital assistant (Col. 19, Lines 4-7); and (b) accept text user input in the text edit dialog box (Col. 20, Lines 56-60).

Regarding Claim 8, Barnard teaches the markup data (Col. 15, Lines 45-47) is note (Col. 20, Lines 56-60, Col. 21, Lines 53-67, Col. 22, Lines 2-5).

Regarding Claim 9, Barnard teaches (a) determine when a new note object has been selected (Col. 20, Lines 56-58, Col. 21, Lines 48-55); (b) accept a user selection of, an anchor point in a display of a map on the personal digital assistant (Col. 21, Lines 55-60); (c) display a text entry screen on the personal digital assistant (Col. 20, Lines 56-60, Col. 21, Lines 53-67, Col. 22, Lines 2-5); (d) accept text user input in the text entry screen (Col. 21, lines 65-67); and (e) display an icon (Col. 23, Lines 2-27, Lines 30-56, Col. 24, lines 2-16, where "CoG" or "FoG" are ICON representing a specific file to be opened by stylus) representative of a note at the anchor point (Col. 21, Lines 65-67, Col. 22, Lines 2-5).

Regarding Claim 11, Barnard teaches the markup data is uploaded to a server directory on the server using a hypertext transfer protocol PUT request (Col. 17, Lines 49-52, Col. 15, Lines 32-36, Lines 45-47).

Regarding Claim 12, Barnard teaches the application on the personal digital assistant (Col. 12, Lines 15-25) further configured to: (a) download any new map sets (Col. 17, Lines 36-42, Col. 20, Lines 11,12); (b) delete un-referenced map sets (Col. 20, Lines 43-45); and (c) delete any markup data associated with the deleted map sets (Col. 20, Lines 43-49).

Regarding Claim 13, Barnard teaches a system for processing mark up data for a map comprising a server (Col. 17, Lines 31-65) configured to: (a) obtain a file comprised of markup data for a map (Col. 20, Lines 11-15); (b) convert the markup data to coordinate data (Col. 13, Lines 3-16, Col. 15, Lines 45-47,

Lines 56-59); and (c) use the coordinate data to obtain a standard data format (SDF) (Col. 23, Lines 2-7, 9-

28) file that can be used to superimpose the markup data on the map (Col. 17, Lines 57-61).

Regarding Claim 14, Barnard teaches the coordinate data comprises mapping coordinate system

(MCS) coordinates and the server is further configured to convert the MCS coordinates to

latitude/longitude coordinates (Col. 13, Lines 3-16, Col. 15, Lines 45-47, Lines 56-59).

Regarding Claim 15, Barnard teaches a graphical user interface for obtaining redline markup data

(Col. 13, Lines 34-41); for a map on a personal digital assistant (Col. 12, Lines 15-25) the graphical user

interface (Col. 6, lines 34-42) comprising: (a) determine when a new redline object has been selected (Col.

13, Lines 34-41); and (b) obtain a redline object (Geometric scribbles (points, lines polygon, symbols),

GPS input coordinates, annotations ands a geo-reference systems) (Col. 15, Lines 36-54, 56-58, Col. 16,

Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-27) while a stylus

remains in contact with a screen of the personal digital assistant (Col. 13, Lines 49-52, Col. 13, Lines 34-

41, Col. 14, Lines 9-11).

Regarding Claim 16, Barnard teaches (a) display a text edit dialog box on the screen (Col. 20, Lines

56-60) of the personal digital assistant (Col. 19, Lines 4-7); and (b) accept text user input in the text edit

dialog box (Col. 20, Lines 56-60).

Regarding Claim 18, Barnard teaches a graphical user interface for obtaining redline markup data

(Col. 13, Lines 34-41); for a map on a personal digital assistant (Col. 12, Lines 15-25) the graphical user

interface (Col. 6, lines 34-42) comprising: (a) determine when a new note object has been selected (Col. 20,

Lines 56-58, Col. 21, Lines 48-55); (b) accept a user selection of; an anchor point in a display of a map on

the personal digital assistant (Col. 21, Lines 55-60); (c) display a text entry screen on the personal digital

assistant (Col. 20, Lines 56-60, Col. 21, Lines 53-67, Col. 22, Lines 2-5); (d) accept text user input in the

text entry screen (Col. 21, lines 65-67); and (e) display an icon (Col. 23, Lines 2-27, Lines 30-56, Col. 24,

lines 2-16, where "CoG" or "FoG" are ICON representing a specific file to be opened by stylus)

representative of a note at the anchor point (Col. 21, Lines 65-67, Col. 22, Lines 2-5).

　　　　Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10,

Lines 18-21).

　　　　Regarding Claim 19, Barnard teaches synchronizing the redline (Geometric scribbles (points, lines

polygon, symbols), GPS input coordinates, annotations ands a geo-reference systems) (Col. 15, Lines 36-

54, 56-58, Col. 16, Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-

27) markup data with a server (Col. 16, Line 51 to Col. 17, Line 21, Col. 17, Line 57 to Col. 18, Line 2).

　　　　Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10,

Lines 18-21).

　　　　Regarding Claim 20, Barnard teaches obtaining a file comprised of markup data for a map on a

personal digital assistant (Col. 12, Lines 15-25, Col. 17, Lines 49-65); and uploading the file from the

personal digital assistant to a server (Col. 17, Line 62 to Col. 18, Line 2).

　　　　Regarding Claim 21, Barnard teaches the markup data comprises pixel data (Col.12, Lines 37-39)

for a markup entity (Col. 21, Lines 3-63).

　　　　Regarding Claim 22, Barnard teaches the obtaining comprises obtaining markup data from a user

(Col. 16, Lines 55-63).

Regarding Claim 23, Barnard teaches the markup data is a redline line (Col. 13, Lines 49-52, Col. 13, Lines 34-41, Col. 14, Lines 9-11, (Geometric scribbles (points, lines polygon, symbols), GPS input coordinates, annotations ands a geo-reference systems) (Col. 15, Lines 36-54, 56-58, Col. 16, Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-27)).

Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10, Lines 18-21).

Regarding Claim 24, Barnard teaches (a) determine when a new redline object has been selected (Col. 13, Lines 34-41); and (b) obtain a redline object (Geometric scribbles (points, lines polygon, symbols), GPS input coordinates, annotations ands a geo-reference systems) (Col. 15, Lines 36-54, 56-58, Col. 16, Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-27) while a stylus remains in contact with a screen of the personal digital assistant (Col. 13, Lines 49-52, Col. 13, Lines 34-41, Col. 14, Lines 9-11).

Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10, Lines 18-21).

Regarding Claim 25, Barnard teaches (a) display a text edit dialog box on the screen (Col. 20, Lines 56-60) of the personal digital assistant (Col. 19, Lines 4-7); and (b) accept text user input in the text edit dialog box (Col. 20, Lines 56-60).

Regarding Claim 26, Barnard teaches the markup data (Col. 15, Lines 45-47) is note (Col. 20, Lines 56-60, Col. 21, Lines 53-67, Col. 22, Lines 2-5).

Regarding Claim 27, Barnard teaches (a) determine when a new note object has been selected (Col. 21, Lines 48-55); (b) accept a user selection of, an anchor point in a display of a map on the personal digital assistant (Col. 21, Lines 55-60); (c) display a text entry screen on the personal digital assistant (Col. 20, Lines 56-60, Col. 21, Lines 53-67, Col. 22, Lines 2-5); (d) accept text user input in the text entry screen (Col. 21, lines 65-67); and (e) display an icon (Col. 23, Lines 2-27, Lines 30-56, Col. 24, lines 2-16, where "CoG" or "FoG" are ICON representing a specific file to be opened by stylus) representative of a note at the anchor point (Col. 21, Lines 65-67, Col. 22, Lines 2-5).

Regarding Claim 28, Barnard teaches the application uploads the data to a server by (Col. 36, Lines 33-42): (a) obtaining a socket connection (Col. 12, Lines 15-21, PC window software pass 1995 Win Sock driver which manages a network socket connection effectively supports bi-directional data downloading as well as uploading); (b) obtaining an inventory of resident mapsets (Col. 17, Lines 49-55); (c) searching for markup data associated with the resident mapsets (Col. 17, Lines 57-65); and (d) uploading all resident markup data to the server (Col. 17, Line 62 to Col. 18, Line 2).

Regarding claim 29, Barnard teaches the markup data is uploaded to a server directory on the server using a hypertext transfer protocol PUT request (Col. 17, Lines 49-52, Col. 15, Lines 32-36, Lines 45-47).

Regarding Claim 30, Barnard teaches the application on the personal digital assistant (Col. 12, Lines 15-25) further configured to: (a) download any new mapsets (Col. 17, Lines 36-42, Col. 20, Lines 11,12); (b) delete unreferenced mapsets (Col. 20, Lines 43-45); and (c) delete any markup data associated with the deleted mapsets (Col. 20, Lines 43-49).

Regarding Claim 31, Barnard teaches a system for processing mark up data for a map comprising a

server (Col. 17, Lines 31-65) configured to: (a) obtain a file comprised of markup data for a map (Col. 20,

Lines 11-15); (b) convert the markup data to coordinate data (Col. 13, Lines 3-16, Col. 15, Lines 45-47,

Lines 56-59); and (c) use the coordinate data to obtain a standard data format (SDF) (Col. 23, Lines 2-7, 9-

28) file that can be used to superimpose the markup data on the map (Col. 17, Lines 57-61).

Regarding Claim 33, Barnard teaches a graphical user interface for obtaining redline markup data

(Col. 13, Lines 34-41); for a map on a personal digital assistant (Col. 12, Lines 15-25) the graphical user

interface (Col. 6, lines 34-42) comprising: (a) determine when a new redline object has been selected (Col.

13, Lines 34-41); and (b) obtain a redline object (Geometric scribbles (points, lines polygon, symbols),

GPS input coordinates, annotations ands a geo-reference systems) (Col. 15, Lines 36-54, 56-58, Col. 16,

Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-27) (Geometric

scribbles (points, lines polygon, symbols), GPS input coordinates, annotations ands a geo-reference

systems) (Col. 15, Lines 36-54, 56-58, Col. 16, Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines

14-40, Col. 23, Lines 2-7, 9-27) while a stylus remains in contact with a screen (Col. 13, Lines 49-52, Col.

13, Lines 34-41, Col. 14, Lines 9-11) of the personal digital assistant (Col. 12, Lines 15-25).

Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10,

Lines 18-21).

Regarding Claim 34, Barnard teaches (a) display a text edit dialog box on the screen (Col. 20, Lines

56-60) of the personal digital assistant (Col. 19, Lines 4-7); and (b) accept text user input in the text edit

dialog box (Col. 20, Lines 56-60).

Regarding Claim 36, Barnard teaches a graphical user interface for obtaining redline markup data

(Col. 13, Lines 34-41); for a map on a personal digital assistant (Col. 12, Lines 15-25) the graphical user

interface (Col. 6, lines 34-42) the method comprising: (a) determine when a new note object has been

selected (Col. 20, Lines 56-58, Col. 21, Lines 48-55); (b) accept a user selection of; an anchor point in a

display of a map on the personal digital assistant (Col. 21, Lines 55-60); (c) display a text entry screen on

the personal digital assistant (Col. 20, Lines 56-60, Col. 21, Lines 53-67, Col. 22, Lines 2-5); (d) accept

text user input in the text entry screen (Col. 21, lines 65-67); and (e) display an icon (Col. 23, Lines 2-27,

Lines 30-56, Col. 24, lines 2-16, where "CoG" or "FoG" are ICON representing a specific file to be

opened by stylus) representative of a note at the anchor point (Col. 21, Lines 65-67, Col. 22, Lines 2-5).

Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10,

Lines 18-21).

Regarding Claim 57, Barnard teaches the file comprised of markup data (file, Col. 18, Lines 3-20,

Col. 25, Lines 34-56) is separate from a file comprised of the map (Col. 15, Lines 17-53, Col. 16, Lines 51-

67, Col. 41, Lines 8-64, Col. 27, Lines 31-33).

Regarding Claim 58, Barnard teaches the file comprised of markup data (file, Col. 18, Lines 3-20,

Col. 25, Lines 34-56) is separate from a file comprised of the map (Col. 15, Lines 17-53, Col. 16, Lines 51-

67, Col. 41, Lines 8-64, Col. 27, Lines 31-33).

Regarding Claim 59, Barnard teaches the file comprised of markup data (file, Col. 18, Lines 3-20,

Col. 25, Lines 34-56) is separate from a file comprised of the map (Col. 15, Lines 17-53, Col. 16, Lines 51-

67, Col. 41, Lines 8-64, Col. 27, Lines 31-33).

Regarding Claim 60, Barnard teaches the file comprised of markup data (file, Col. 18, Lines 3-20,

Col. 25, Lines 34-56) is separate from a file comprised of the map (Col. 15, Lines 17-53, Col. 16, Lines 51-

67, Col. 41, Lines 8-64, Col. 27, Lines 31-33).

7.   Claims 38-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Neal (6,192,518 B1)

in view of Barnard (6,456,938 B1).

Regarding Claim 38, Neal teaches an article of manufacture comprising a program storage medium

readable by a computer hardware device and embodying one or more instructions executable by the

computer hardware device (Col. 12, Lines 38-41).

    However, Neal fails to teach performing a method for obtaining note markup data for a map on a

personal digital assistant, obtaining note markup data; obtaining a file comprised of markup data for a map

on a personal digital assistant and uploading the file from the personal digital assistant to a server.

    However, Barnard teaches performing a method for obtaining note markup data for a map on a

personal digital assistant, obtaining note markup data (Col. 13, Lines 34-41); obtaining a file comprised of

markup data for a map (Col. 20, Lines 11-15) on a personal digital assistant (Col. 12, Lines 15-25) and

uploading the file from the personal digital assistant (Col. 12, lines 15-25) to a server (Col. 17, Line 62 to

Col. 18, Line 2).

    Thus it would have been obvious to one in the ordinary skill in the art at the time of invention was

made to incorporate the teaching of Neal in to the Barnard to be able to access previously created maps for

downloading and editing by user and to provide for the uploading of maps and play data through a public

access computer system such as internet on a PDA.

Regarding Claim 39, Barnard teaches the markup data comprises pixel data (Col.12, Lines 37-39)

for a markup entity (Col. 21, Lines 3-63).

Regarding Claim 40, Barnard teaches the obtaining comprises obtaining markup data from a user

(Col. 16, Lines 55-63).

8.   Claims 41,42,44-49,51,52,54,61,62 rejected under 35 U.S.C. 103(a) as being unpatentable over

Neal (6,192,518 B1) in view of Barnard (6,456,938 B1) as applied to claims 38-40 above, and further in

view of Ching (6,560,620 B1).

Regarding Claim 41, Barnard teaches the markup data is a redline line (Col. 13, Lines 49-52, Col.

13, Lines 34-41, Col. 14, Lines 9-11).

However, Neal modified by Barnard fail to recite specifically the markup data is a redline line.

However, Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20,

Lines 6-10, Lines 18-21).

Thus it would have been obvious to one in the ordinary skill in the art at the time of invention was

made to incorporate the teaching of Ching in to the Neal modified by Barnard fail. to be able to have

system that can encode mark-up data as redline and have a capability to store, retrieve and compare with

other documents.

Regarding Claim 42, Barnard teaches (a) determine when a new redline object has been selected

(Col. 13, Lines 34-41); and (b) obtain a redline object (Geometric scribbles (points, lines polygon,

symbols), GPS input coordinates, annotations ands a geo-reference systems) (Col. 15, Lines 36-54, 56-58,

Col. 16, Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-27) while a

stylus remains in contact with a screen of the personal digital assistant (Col. 13, Lines 49-52, Col. 13, Lines

34-41, Col. 14, Lines 9-11).

Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10,

Lines 18-21).

Regarding Claim 44, Barnard teaches the markup data (Col. 15, Lines 45-47) is note (Col. 20, Lines

56-60, Col. 21, Lines 53-67, Col. 22, Lines 2-5).

Regarding Claim 45, Barnard teaches a graphical user interface for obtaining redline markup data

(Col. 13, Lines 34-41); for a map on a personal digital assistant (Col. 12, Lines 15-25) the graphical user

interface (Col. 6, lines 34-42) the method comprising: (a) determine when a new note object has been

selected (Col. 20, Lines 56-58, Col. 21, Lines 48-55); (b) accept a user selection of; an anchor point in a

display of a map on the personal digital assistant (Col. 21, Lines 55-60); (c) display a text entry screen on

the personal digital assistant (Col. 20, Lines 56-60, Col. 21, Lines 53-67, Col. 22, Lines 2-5); (d) accept

text user input in the text entry screen (Col. 21, lines 65-67); and (e) display an icon (Col. 23, Lines 2-27,

Lines 30-56, Col. 24, lines 2-16, where "CoG" or "FoG" are ICON representing a specific file to be

opened by stylus) representative of a note at the anchor point (Col. 21, Lines 65-67, Col. 22, Lines 2-5).

Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10,

Lines 18-21).

Regarding Claim 46, Barnard teaches the application uploads the data to a server by (Col. 36, Lines

33-42): (a) obtaining a socket connection (Col. 12, Lines 15-21, PC window software pass 1995 Win Sock

driver which manages a network socket connection effectively supports bi-directional data downloading as

well as uploading); (b) obtaining an inventory of resident mapsets (Col. 17, Lines 49-55); (c) searching for

markup data associated with the resident mapsets (Col. 17, Lines 57-65); and (d) uploading all resident

markup data to the server (Col. 17, Line 62 to Col. 18, Line 2).

Regarding Claim 47, Barnard teaches the markup data is uploaded to a server directory on the

server using a hypertext transfer protocol PUT request (Col. 17, Lines 49-52, Col. 15, Lines 32-36, Lines

45-47).

Regarding Claim 48, Barnard teaches the application on the personal digital assistant (Col. 12,

Lines 15-25) further configured to: (a) download any new mapsets (Col. 17, Lines 36-42, Col. 20, Lines

11,12); (b) delete unreferenced mapsets (Col. 20, Lines 43-45); and (c) delete any markup data associated

with the deleted mapsets (Col. 20, Lines 43-49).

Regarding Claim 49, Neal teaches an article of manufacture comprising a program storage medium

readable by a computer hardware device and embodying one or more instructions executable by the

computer hardware device (Col. 12, Lines 38-41).

Barnard teaches performing a method for obtaining (a) note markup data for a map on a personal

digital assistant (Col. 12, Lines 15-25), obtaining note markup data (Col. 13, Lines 34-41); (b) convert the

markup data to coordinate data (Col. 13, Lines 3-16, Col. 15, Lines 45-47, Lines 56-59); and (c) use the

coordinate data to obtain a standard data format (SDF Col. 23, Lines 2-7, 9-28) file that can be used to

superimpose the markup data on the map (Col. 17, Lines 57-61).

Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10,

Lines 18-21).

Regarding Claim 51, Neal teaches an article of manufacture comprising a program storage medium readable by a computer hardware device and embodying one or more instructions executable by the computer hardware device (Col. 12, Lines 38-41).

Barnard teaches performing a method for obtaining note markup data for a map on a personal digital assistant (Col. 12, Lines 15-25), obtaining note markup data (Col. 13, Lines 34-41); the method comprising: (a) determine when a new redline object (Geometric scribbles (points, lines polygon, symbols), GPS input coordinates, annotations ands a geo-reference systems) (Col. 15, Lines 36-54, 56-58, Col. 16, Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-27) has been selected (Col. 13, Lines 34-41); and (b) obtain a redline object (Geometric scribbles (points, lines polygon, symbols), GPS input coordinates, annotations ands a geo-reference systems) (Col. 15, Lines 36-54, 56-58, Col. 16, Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-27) while a stylus remains in contact with a screen of the personal digital assistant (Col. 13, Lines 49-52, Col. 13, Lines 34-41, Col. 14, Lines 9-11).

Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10, Lines 18-21).

Regarding Claim 52, Barnard teaches (a) display a text edit dialog box on the screen (Col. 20, Lines 56-60) of the personal digital assistant (Col. 19, Lines 4-7); and (b) accept text user input in the text edit dialog box (Col. 20, Lines 56-60).

Regarding Claim 54, Neal teaches an article of manufacture comprising a program storage medium readable by a computer hardware device and embodying one or more instructions executable by the computer hardware device (Col. 12, Lines 38-41).

Barnard teaches performing a method for obtaining note markup data for a map on a personal

digital assistant, obtaining note markup data (Col. 13, Lines 34-41); for a map on a personal digital

assistant (Col. 12, Lines 15-25) (a) determine when a new note object has been selected (Col. 20, Lines 56-

58); (b) accept a user selection of, an anchor point in a display of a map on the personal digital assistant

(Col. 21, Lines 45-60); (c) display a text entry screen on the personal digital assistant (Col. 20, Lines 56-60,

Col. 21, Lines 53-67, Col. 22, Lines 2-5); (d) accept text user input in the text entry screen (Col. 21, lines

65-67); and (e) display an icon representative of a note at the anchor point (Col. 21, Lines 65-67, Col. 22,

Lines 2-5).

Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10,

Lines 18-21).

Regarding Claim 61, Barnard teaches the file comprised of markup data (file, Col. 18, Lines 3-20,

Col. 25, Lines 34-56) is separate from a file comprised of the map (Col. 15, Lines 17-53, Col. 16, Lines 51-

67, Col. 41, Lines 8-64, Col. 27, Lines 31-33).

Regarding Claim 62, Barnard teaches the file comprised of markup data (file, Col. 18, Lines 3-20,

Col. 25, Lines 34-56) is separate from a file comprised of the map (Col. 15, Lines 17-53, Col. 16, Lines 51-

67, Col. 41, Lines 8-64, Col. 27, Lines 31-33).

Allowable Subject Matter

9.   Claims 6,10,17,32,35,37,43,50,53,55,56 are objected to as being dependent upon a rejected base

claim, but would be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

10.   The following is an examiner's statement of reasons for allowance:

A system for processing markup data for a map on a personal digital assistant comprising : (a)   a

personal digital assistant; (b) an application on the personal digital assistant, the application configured to:

(i) obtain <u>**a map as an encoded and spatially indexed vector representation of geographic data from a**</u>

<u>**server; (ii) display the map on a screen of the personal digital assistant; (iii) obtain markup data**</u>

<u>**comprised of pixel data from a user that utilizes a stylus to markup the map displayed on the**</u>

<u>**personal digital assistant, (IV) create a file comprised of the markup data; (v) upload the file of**</u>

<u>**markup data from the personal digital assistant to the server and the personal digital assistant**</u>

<u>**obtains the file by obtaining markup data from a user the markup data is a redline line and the**</u>

<u>**application configured to obtain the markup data from a user is further configured to: (a) determine**</u>

<u>**when a new redline object has been selected; and (b) obtain a redline object while a stylus remains in**</u>

<u>**contact with a screen of the personal digital assistant and the file comprised of markup data is**</u>

<u>**separate from a file of the geographic data.**</u>

The cited references on 892's fail to anticipate individually or render obviousness individually as

well as in combination the underlined bold above claim.

Any comments considered necessary by applicant must be submitted no later than the payment of

the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions

should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

11.   Applicant's arguments with respect to claims 1,2,6,9-15 have been considered but are moot in view

of the new ground(s) of rejection.

Conclusion

12.   The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Watanabe et al. (6,763,458 B1) System and method for installing and servicing an operating system in a computer or information appliance.

Madduri (6,551,357) Method, system, and program for storing and retrieving markings for display to an electronic media file.

10.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prabodh M Dharia whose telephone number is 703-605-1231. The examiner can normally be reached on M-F 8AM to 5PM.

11.   If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 703-3054938. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

12.   Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

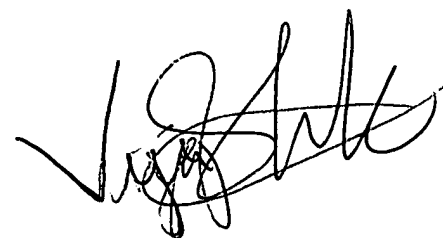Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

PD

AU2673

April 26,2005

VIJAY SHANKAR
PRIMARY EXAMINER